A Product of **Sonneborn** RESEARCH

KURE-N-SEAL

for curing, sealing and dustproofing newly poured concrete surfaces

Cures

Seals

Dustproofs...in one application

Saves Time

Saves Labor

Saves Money...in one operation

L. SONNEBORN SONS, INC. Building Products Division, 404 Fourth Avenue, New York 16, N. Y.
Established 1903
BOSTON • CHICAGO • HOUSTON • LOS ANGELES • TORONTO

KURE-N-SEAL

PURPOSE

To provide a fast-drying film or coating on newly poured concrete surfaces which will cure, seal, and dustproof in one application. KURE-N-SEAL may be used on interior or exterior work.

Simultaneously, KURE-N-SEAL, by functioning as a surface sealant prevents absorption of soils, oils, and attack by mild acids or alkalies. Eliminates construction stains on concrete found in new buildings.

In one application, KURE-N-SEAL cures, seals, and dustproofs concrete effectively — at low cost!

DESCRIPTION

KURE-N-SEAL is a balanced blend of synthetic rubber resins in fast evaporating solvents. It contains no oils or saponifiable materials. It is a superior concrete floor sealing compound. By locking in the moisture in freshly poured concrete and tenaciously adhering to the surface, it cures the concrete and creates conditions for achieving maximum hardness of the concrete slab.

KURE-N-SEAL produces a transparent, hard, glossy film with excellent resistance to traffic abrasion, water spillage, mild acids and alkalies.

WHEN USED

KURE-N-SEAL is applied to freshly laid concrete as soon as possible after surface water has disappeared and upon completion of finishing operations. The uniform continuous membrane seals in the gauging water and controls evaporation at much lower labor cost than conventional methods such as building paper, burlap or sawdust. By functioning as an efficient curing compound, KURE-N-SEAL promotes retention of water and complete hydration of the cement. The result is an integrally sounder and harder slab.

SAVES TIME

Fast drying KURE-N-SEAL on existing floors permits early access to, and use of the treated area. Multiple coat applications are recommended for exceptionally porous conditions and may be completed within a few hours.

LOW COST MAINTENANCE

KURE-N-SEAL permits low-cost maintenance due to drastic reduction of concrete dusting. It greatly minimizes construction stains and materially reduces the cost of cleaning up after construction work is completed. KURE-N-SEAL may be top-coated with a protective and decorative floor finish where desired.

LABORATORY REPORT

1. ABRASION TEST

Specimen blocks approximately ¼ inch thick and 4 inches square were cast using a concrete mix as specified in ASTM C-156-52. The surfaces of the specimens were treated using the same procedure specified in ASTMC-156-52, except that the surfaces were troweled smooth prior to application of the compounds. Three specimens of each were coated at the rate of 200, 400 and 600 square feet per gallon. The abrasion tests were conducted using a Taber Abraser Model E-4010, H-22 Calibrade wheels, 500 gram load on each wheel. After 100 cycles, the loss in weight and the depth of wear were measured.

TEST RESULTS

COVERAGE PER GALLON	AVERAGE LOSS IN GRMS	AVERAGE DEPTH IN INCHES
200 Sq. Ft.	.88	.026
400 Sq. Ft.	1.8	.017
600 Sq. Ft.	1.9	.015

2. WATER RETENTION EFFICIENCY (In Terms of Moisture Loss)

Three specimens each at coverages of 200, 400 and 600 square feet per gallon for each of the two compounds were prepared, treated and tested in accordance with ASTM C-156-55T and C-309-53T.

COVERAGE PER GALLON	AVERAGE LOSS GRMS/SQ. cm	DRYING TIME (HOURS)
200 Sq. Ft.	0.0200	2¼
400 Sq. Ft.	0.0227	2¼
600 Sq. Ft.	0.0243	2.0

Specification Requirements, 0.055 Maximum, 4 hours Maximum

3. ADHESION TEST

Six two inch concrete cubes were cast and prepared from the same mix as specified in ASTM C-156-52. Each curing compound was applied at the rate of 300-350 square feet per gallon. After seven days, two inch wide asphalt tile strips were attached using Tapco asphalt tile cement (E165 Emulsion type) adhesive. Seventy-two hours time was allowed for adhesive to cure or develop adhesive strength, after which each tile was pulled from the concrete block in a Scott Tester. The results of three specimens averaged for each compound and reported as shear in pounds per square inch.

COVERAGE PER GALLON	AVERAGE — 3 SPECIMENS SHEAR IN POUNDS PER SQ. IN.
300 to 350 Sq. Ft.	3.5

CURES • SEALS • DUSTPROOFS CONCRETE SURFACES

in one operation for better concrete — at lower cost!

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TYPE OF APPLICATIONS

PURPOSE	RATE OF COVERAGE *
CURING COMPOUND OR AS SEALER FOR CURED CONCRETE FLOORS: When the architect, contractor or property owner desire a gloss finish concrete floor, and seeks low-cost, time-saving application.	300 to 400 sq. ft. per gallon.
Higher gloss or thicker films may be obtained at lower coverages; or two coat applications at...	500 to 600 sq. ft. per gal. per coat
SEALER TO PREVENT STAINING: To minimize staining on concrete, terrazzo, etc., best results will be secured from two coat applications.	500 to 600 sq. ft. per gal. per coat
SEALER FOR TERRAZZO, CONCRETE, PATIOS, ETC.: Single coat applications on clean surfaces. Where desired, concrete may be finished with wax, or painted.	400 to 600 sq. ft. per gal. per coat
CHEMICAL RESISTANCE IN FOOD PLANTS AND OTHER INDUSTRIES: KURE-N-SEAL has excellent resistance to lactic acid, alkalies, mild acids, mineral oils, etc. It will offer good protection to spillage conditions, but is not designed for immersion conditions. Chemical resistance on concrete, mortar, etc. is best secured at multiple coat applications.	300 to 400 sq. ft. per gallon per coat
FINISHING WITH ASPHALT TILE: Concrete floors treated with KURE-N-SEAL, single coat application, can be tiled when thoroughly cured. This holds where KURE-N-SEAL is used as a curing compound and/or sealer when tiling is anticipated. Under these conditions the coating may be pourous or have been abraded by foot traffic. The normal requirements for applying the mastic adhesive to clean flooring shall prevail. Where thicker films or multiple coats of KURE-N-SEAL have been applied, surface abrasion may be necessary for maximum adhesion of emulsion type mastic adhesives.	500 to 600 sq. ft. per gal. per coat

* For the Imperial Canadian gallon increase covering capacity by 20%

PACKAGING AND SHIPPING DATA

CONTAINER SIZES	APPROXIMATE SHIPPING WEIGHTS
54 gallon drums	479 lbs.
5 gallon pails	45 lbs.

CAUTION

Keep KURE-N-SEAL away from heat and flame. Use with adequate ventilation. Avoid prolonged or repeated contact with skin. Avoid prolonged breathing of vapor or spray mist. Keep container closed when not in use. Observe cleanliness and sanitary precautions.

Do not pour unused material back into container.

If thinning is required, use Xylol or Sonneborn's K-23 Reducer — maximum one quart per gallon of KURE-N-SEAL.

SPECIFICATION FOR NEW WORK

KURE-N-SEAL, manufactured by L. Sonneborn Sons, Inc. (by Sonneborn Ltd. in Canada) shall be used to cure, seal and dustproof newly poured concrete in accordance with the manufacturer's printed instructions.

SPECIFICATION FOR EXISTING WORK

KURE-N-SEAL, as manufactured by L. Sonneborn Sons, Inc. (by Sonneborn Ltd. in Canada) shall be used to seal and dustproof existing floors in accordance with the manufacturer's printed instructions.

KURE-N-SEAL

- CURES, SEALS, DUSTPROOFS CONCRETE
- PROTECTS AGAINST MANY CHEMICALS
- ELIMINATES DIRT AND CONSTRUCTION STAINS
- IS QUICK DRYING
- PROVIDES EXCELLENT BASE FOR PAINTING OR FLOOR COVERING
- PERMITS CONSTRUCTION WORK TO CONTINUE RAPIDLY AND ECONOMICALLY
- IS EASY TO APPLY AND MAINTAIN

KURE-N-SEAL

CURES • SEALS • DUSTPROOFS

with a Fast-Drying, Transparent, Gloss Finish

APPLICATION

1. When used other than for curing new concrete, the surface shall be dry and free of scale, grease, oil, paint, grit, laitance or other foreign substances.
2. Can be applied by brush, spray, roller or lambs' wool applicator. Apply by spray to fresh concrete for curing.
3. DRYING TIME: At normal temperature and humidity KURE-N-SEAL will dry for application of additional coats in approximately two hours. Allow to dry hard—usually three to four hours—before opening area for use. When dry, other paints and varnishes can be applied if desired.
4. If thinning is required, use Xylol or Sonneborn K-23 Reducer to a maximum of one quart per gallon of KURE-N-SEAL.
5. NOTE: Not for use where KURE-N-SEAL will be subjected to immersion. Should not be used for a coating or lining the interior of concrete tanks and pools.

PHYSICAL and CHEMICAL PROPERTIES

PRIMER—None Required

DRYING TIME AT 75°F.—To Touch-(3 mil film)-10 minutes.
—To Recoat-Two hours
—To Use-Two to four hours

FLASH POINT Of Solvent—105°F. Tag. Closed Cup.

RESISTANCE TO WATER—Excellent

RESISTANCE TO ALKALI—Excellent

RESISTANCE TO ACIDS (mild)—Excellent

EXPOSURE CONDITIONS—Spillage—Interior and Exterior. Not to be used as tank lining or under immersion conditions.

APPLICATION TECHNIQUE—Brush, spray, roller, lamb's wool applicator.

THINNER—If thinning is required, use Xylol or Sonneborn K-23 Reducer to maximum of one quart per gallon of KURE-N-SEAL.

SPECIFIC GRAVITY—0.9604 = 8 lbs. per gal. (U.S.)

OTHER SONNEBORN CONCRETE FLOOR TREATMENTS

EPOLITH

Produces a hard, resilient, chemical resistant veneer. A synthetic resin compound with a mineral filler offering a high level chemical, impact, wear, abrasion, water and weather resistance. For waterproofing, resurfacing, coating or as an adhesive compound for rigid substrates of concrete, brick, wood, etc. For use on interior or exterior work. Available in Concrete Gray, Red and Green.

SON-NO-MAR

Chemical-resistant and abrasive-resistant finish for concrete floors. Transparent, Red, Green, Light Gray and Dark Gray.

SONOPLEX

An especially durable coating for concrete, metal and wood, interior and exterior, with a high resistance to chemical spillage, fumes, solvents, grease and oil. Available in White, Transparent, Black, Medium Gray, Dark Gray, Medium Green, Dark Green, Buff and Red.

LAPIDOLITH

Where conditions require chemical surface hardening the use of LAPIDOLITH, the original patented chemical hardener, is recommended. If certain areas require chemical surface hardening this must be done before KURE-N-SEAL is applied.

L. SONNEBORN SONS, INC.
Since 1903 has been developing new and more practical concrete floor treatments through research.

RESEARCH LABORATORIES, staffed by outstanding chemical engineers, maintain rigorous control of raw materials and finished products to insure consistent high quality and performance.

SONNEBORN maintains a nation-wide network of floor treatment specialists, available for expert consultation and on-the-job surveys.

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